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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09 838,730	04 19 2001	Tawfik R. Arabi	884.410US1	9492
7	590 08 13 2003			
Schwegman, Lundberg, Woessner & Kluth, P.A.			EXAMINER	
P.O. Box 2938 Minneapolis, M			KOBERT, RUSSELL MARC	
			ART UNIT	PAPER NUMBER
			2829	

DATE MAILED: 08/13/2003

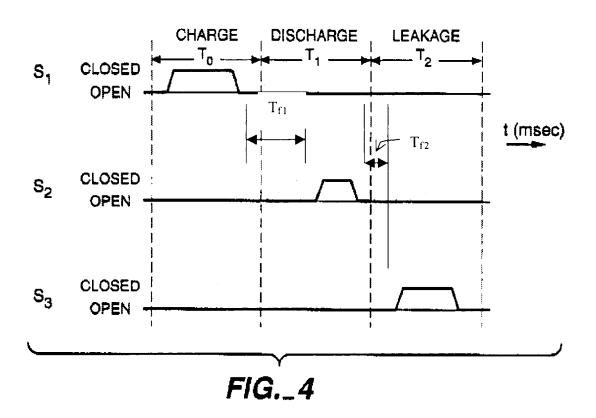
Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicantia
•	Application No.	Applicant(s)
Office Assists Summon.	09/838,730	ARABI ET AL.
Office Action Summary	Examiner	Art Unit
	Russell M Kobert	2829
The MAILING DATE of this commun. Period for Reply	ication appears on the cover sheet w	ith the correspondence address
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNI  Extensions of time may be available under the provisions after SIX (6) MONTHS from the mailing date of this common the period for reply specified above is less than thirty (34 or If NO period for reply is specified above, the maximum state Failure to reply within the set or extended period for reply Any reply received by the Office later than three months a carned patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no event, however, may a nunication. 0) days, a reply within the statutory minimum of this atutory period will apply and will expire SIX (6) MOI will, by statute, cause the application to become Al	reply be timely filed  rty (30) days will be considered timely.  NTHS from the mailing date of this communication.  BANDONED (35 U.S.C. § 133).
1) Responsive to communication(s) fil	ed on <u>02 <i>June</i> 2003</u> .	
2a) This action is <b>FINAL</b> .	2b)☐ This action is non-final.	
closed in accordance with the pract		atters, prosecution as to the merits is D. 11, 453 O.G. 213.
Disposition of Claims		
4) Claim(s) <u>1-9 and 31-47</u> is/are pendi		
4a) Of the above claim(s) <u>31-42</u> is/ar	e withdrawn from consideration.	
5) Claim(s) <u>6-9</u> is/are allowed.		
6) Claim(s) <u>1-5 and 43-47</u> is/are rejected	ed.	
7) Claim(s) is/are objected to.		
8)	tion and/or election requirement.	
9)☐ The specification is objected to by the	e Examiner.	
10) The drawing(s) filed on is/are:	a) accepted or b) objected to by	the Examiner.
	ection to the drawing(s) be held in abey	
11) ☐ The proposed drawing correction filed		disapproved by the Examiner.
If approved, corrected drawings are rec	•	
12) The oath or declaration is objected to	by the Examiner.	
Priority under 35 U.S.C. §§ 119 and 120		
13) Acknowledgment is made of a claim	for foreign priority under 35 U.S.C.	§ 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:		
1. Certified copies of the priority	documents have been received.	
2. Certified copies of the priority	documents have been received in A	Application No
	of the priority documents have beer lational Bureau (PCT Rule 17.2(a)). n for a list of the certified copies not	-
14) Acknowledgment is made of a claim for	or domestic priority under 35 U.S.C.	§ 119(e) (to a provisional application).
a) ☐ The translation of the foreign lan	•	
Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (P 3) Information Disclosure Statement(s) (PTO-1449) Page 1	(TO-948) 5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)
5 Patent and Trademark Office TO-326 (Rev. 04-01)	Office Action Summary	Part of Paper No. 6

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Applicant's arguments filed June 2, 2003 have been fully considered but they are not persuasive. Applicants argue that during the time interval  $T_2$  (leakage measurement interval) the device is not floating. The examiner contends there exists at least one interval (noted as  $T_{f2}$  in Figure 4 taken from the Consiglio Patent No. 5,519,327) in-part or in-whole within Leakage interval  $T_2$  wherein the device under test is floating. It is further noted that the device is floating when all the switches ( $S_1$ ,  $S_2$  and  $S_3$  are OPEN). Moreover, the invention as described in claims 1 and 43 do not limit the duration and position in time where a floating interval exists between the driving interval and the determining interval. Referring once again to Figure 4 below, there exist at least two



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time intervals (noted at T<sub>f1</sub> and T<sub>f2</sub>) between the non-floating conditions (S<sub>1</sub> CLOSED and S<sub>3</sub> CLOSED) where the device is floating. The location of these two time intervals meet the claimed limitation of floating the terminal for a predetermined time as recited in claims 1 and 43.

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-5 and 43-47 are rejected under 35 U.S.C. 102(b) as being anticipated by Consiglio (5519327).

Consiglio anticipates a method of testing an integrated circuit (IC), the method comprising: driving a terminal on the IC to a state (col 6, In 64 - col 7, In 3); stopping the driving of the terminal (col 6,  $\ln$  4-9); floating the terminal for a predetermined time ( $T_2$ ); and determining a state of the terminal after the predetermined time (col 7, ln 59 – col 8, In 4); as recited in claim 1.

As to claim 2, determining quality of the IC based on the state of the terminal after the predetermined time (considered inherent to Consiglio; see Abstract). Moreover the limitations of claims 3-5 are considered the inherent method of use of Consiglio.

Consiglio anticipates a machine-readable medium having instructions stored thereon to cause a tester to perform a method, the method comprising: driving a Art Unit: 2829

terminal on the IC to a state (col 6, ln 64 – col 7, ln 3); stopping the driving of the terminal (col 6, ln 4-9); floating the terminal for a predetermined time ( $T_2$ ); and determining a state of the terminal after the predetermined time (col 7, ln 59 – col 8, ln 4); as recited in claim 43.

As to claims 44-47, the limitations are considered the inherent method of use of Consiglio.

4. Claims 6-9, as previously indicated to be allowable in the prior Office Action, remain allowable. The reason is restated for Applicants' convenience:

A method of testing comprising: charging a pin on an integrated circuit (IC) until it reaches a known state; stopping the charging of the pin; floating the pin for a predetermined time; sampling a state of the pin after the predetermined time; and determining a test result of the pin based on the state of the pin after the predetermined time, wherein the method is performed with Boundary Scan as recited in claim 6 has not been found.

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

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shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Russell Kobert whose telephone number is (703) 308-5222.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0956.

Russell M. Kobert Patent Examiner Group Art Unit 2829

August 4, 2003